

Low Voltage Battery 5 to 10 kWh

# Ai-LB Series



Models:  
Ai-LB 5K  
Ai-LB 10K



## Safety

- LFP safe technology
- All-round BMS protection



## Reliable

- IP65 rated design for outdoor use
- High quality cell inside



## User-friendly

- Supporting Multi-use applications
- Online monitoring via Solplanet apps

# Technical Datasheet

Ai-LB 5K

Ai-LB 10K

System Data	Cell type	LiFePO4	
	Battery module	LB51100A	
	Module number	1	2
	Rated capacity	100 Ah	200 Ah
	Nominal energy <sup>1</sup>	5.12 kWh	10.24 kWh
	Usable energy <sup>2</sup>	4.61 kWh	9.22 kWh
	Nominal battery voltage	51.2 V	
	Battery voltage range	44.8 V - 57.6 V	
	Max. charging / discharging current	50 A	100 A
	Rated charging / discharging power	2.56 kW	5.12 kW
	Max. charging / discharging power	2.56 kW	5.12 kW
General Data	Dimensions(W/D/H)	490 / 150 / 680 mm	640 / 181 / 1017 mm
	Module weight	44.5 kg	
	Weight	57 kg	116 kg
	Installation location	indoor / outdoor	
	Mounting method	Floor Mounted	Floor Mounted / Wall Mounted
	Operating temperature range	Charge: 0°C ~ 55°C Discharge: -20°C ~ 55°C	
	Storage temperature range	-20°C ~ 55°C	
	Cooling concept	Natural convection	
	Degree of protection	IP65	
	Relative humidity	5%~95%, non-condensing	
	Max. operating altitude	3000m	
	Scalability	Max.8 sets in parallel	Max.4 sets in parallel
	Communication	CAN	
	Certification	TUV/IEC 62619/IEC 62040/IEC 61000/UN38.3	
	Life cycle <sup>3</sup>	6000 times	
Round-trip efficiency	≥95%		

1. Nominal energy is defined under the following conditions: battery voltage 44.8~57.6V, 0.5C charge & discharge at +25°C.

2. Usable energy is defined under the following conditions: 90% DOD, 0.5C charge & discharge at +25°C.

3. Life cycle is defined under the following conditions: 90 % DOD, 70%EOL, 0.5C charge & discharge at 25°C (One cycle a day).

Version: Aug 2024.

